

PCT\_EP\_04\_00030\_sequence\_listing.txt  
 SEQUENCE LISTING

SC20 REC'd PCT/PTO 05 JUL 2005

<110> alcedo biotech GmbH

<120> Use of HMGB, HMGN, HMGA proteins

<130> A 10009 PCT

<160> 64

<170> PatentIn version 3.1

<210> 1

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1

Met Ser Glu Ser Ser Ser Lys Ser Ser Gln Pro Leu Ala Ser Lys Gln  
 1 5 10 15

Glu Lys Asp Gly Thr Glu Lys Arg Gly Arg Gly Arg Pro Arg Lys Gln  
 20 25 30

Pro Pro Val Ser Pro Gly Thr Ala Leu Val Gly Ser Gln Lys Glu Pro  
 35 40 45

Ser Glu Val Pro Thr Pro Lys Arg Pro Arg Gly Arg Pro Lys Gly Ser  
 50 55 60

Lys Asn Lys Gly Ala Ala Lys Thr Arg Lys Thr Thr Thr Thr Pro Gly  
 65 70 75 80

Arg Lys Pro Arg Gly Arg Pro Lys Lys Leu Glu Lys Glu Glu Glu Glu  
 85 90 95

Gly Ile Ser Gln Glu Ser Ser Glu Glu Glu Gln  
 100 105

PCT\_EP\_04\_00030\_sequence listing.txt

<210> 2

<211> 96

<212> PRT

<213> Homo sapiens

<400> 2

Met Ser Glu Ser Ser Ser Lys Ser Ser Gln Pro Leu Ala Ser Lys Gln  
1 5 10 15

Glu Lys Asp Gly Thr Glu Lys Arg Gly Arg Gly Arg Pro Arg Lys Gln  
20 25 30

Pro Pro Lys Glu Pro Ser Glu Val Pro Thr Pro Lys Arg Pro Arg Gly  
35 40 45

Arg Pro Lys Gly Ser Lys Asn Lys Gly Ala Ala Lys Thr Arg Lys Thr  
50 55 60

Thr Thr Thr Pro Gly Arg Lys Pro Arg Gly Arg Pro Lys Lys Leu Glu  
65 70 75 80

Lys Glu Glu Glu Glu Gly Ile Ser Gln Glu Ser Ser Glu Glu Glu Gln  
85 90 95

<210> 3

<211> 109

<212> PRT

<213> Homo sapiens

<400> 3

Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
1 5 10 15

Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

PCT\_EP\_04\_00030\_sequence listing.txt

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Pro Gln Gln Val Val Gln Lys Lys Pro Ala Gln Glu Glu  
85 90 95

Thr Glu Glu Thr Ser Ser Gln Glu Ser Ala Glu Glu Asp  
100 105

<210> 4

<211> 83

<212> PRT

<213> Homo sapiens

<400> 4

Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
1 5 10 15

Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp

<210> 5

<211> 90

<212> PRT

<213> Homo sapiens

<400> 5

Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
1 5 10 15

PCT\_EP\_04\_00030\_sequence\_listing.txt

Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Glu Glu Phe Tyr Ile Ala Ala  
85 90

<210> 6

<211> 96

<212> PRT

<213> Homo sapiens

<400> 6

Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
1 5 10 15

Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Pro Thr Ile Ala Leu Cys Thr His Trp Ile Asn Ile Cys  
85 90 95

<210> 7

<211> 215

PCT\_EP\_04\_00030\_sequence\_listing.txt

<212> PRT

<213> Homo sapiens

<400> 7

Met Gly Lys Gly Asp Pro Lys Lys Pro Arg Gly Lys Met Ser Ser Tyr  
1 5 10 15

Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys His Pro  
20 25 30

Asp Ala Ser Val Asn Phe Ser Glu Phe Ser Lys Lys Cys Ser Glu Arg  
35 40 45

Trp Lys Thr Met Ser Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala  
50 55 60

Lys Ala Asp Lys Ala Arg Tyr Glu Arg Glu Met Lys Thr Tyr Ile Pro  
65 70 75 80

Pro Lys Gly Glu Thr Lys Lys Lys Phe Lys Asp Pro Asn Ala Pro Lys  
85 90 95

Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu Tyr Arg Pro Lys  
100 105 110

Ile Lys Gly Glu His Pro Gly Leu Ser Ile Gly Asp Val Ala Lys Lys  
115 120 125

Leu Gly Glu Met Trp Asn Asn Thr Ala Ala Asp Asp Lys Gln Pro Tyr  
130 135 140

Glu Lys Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Ile Ala  
145 150 155 160

Ala Tyr Arg Ala Lys Gly Lys Pro Asp Ala Ala Lys Lys Gly Val Val  
165 170 175

Lys Ala Glu Lys Ser Lys Lys Lys Lys Glu Glu Glu Glu Asp Glu Glu  
180 185 190

Asp Glu Glu Asp Glu Glu Glu Glu Glu Asp Glu Glu Asp Glu Asp Glu  
195 200 205

Glu Glu Asp Asp Asp Asp Glu  
210 215

PCT\_EP\_04\_00030\_sequence\_listing.txt

<210> 8

<211> 147

<212> PRT

<213> Homo sapiens

<400> 8

Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
1 5 10 15

Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Ala Gly Val Gln Trp Tyr Asn Leu Gly Ser Leu Gln Pro  
85 90 95

Pro Pro Pro Arg Phe Lys Gln Phe Ser Cys Leu Arg Leu Leu Ser Ser  
100 105 110

Trp Asp Tyr Arg His Pro Pro Pro His Pro Ala Asn Phe Cys Ile Phe  
115 120 125

Ser Arg Asp Arg Val Ser Pro Cys Trp Pro Gly Trp Ser Arg Thr Pro  
130 135 140

Asp Leu Arg  
145

<210> 9

<211> 106

<212> PRT

<213> Homo sapiens

PCT\_EP\_04\_00030\_sequence\_listing.txt

<400> 9

Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
1 5 10 15

Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Asp Asn Leu Leu Pro Arg Thr Ser Ser Lys Lys Lys Thr  
85 90 95

Ser Leu Gly Asn Ser Thr Lys Arg Ser His  
100 105

<210> 10

<211> 92

<212> PRT

<213> Homo sapiens

<400> 10

Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
1 5 10 15

Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

PCT\_EP\_04\_00030\_sequence\_listing.txt

Arg Lys Trp Trp Leu Leu Met Lys Ser Pro Cys Trp  
85 90

<210> 11

<211> 96

<212> PRT

<213> Homo sapiens

<400> 11

Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
1 5 10 15

Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Pro Gln Gln Val Val Gln Lys Lys Pro Ala Gln Tyr Ser  
85 90 95

<210> 12

<211> 118

<212> PRT

<213> Homo sapiens

<400> 12

Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
1 5 10 15

Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45



PCT\_EP\_04\_00030\_sequence listing.txt

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Pro Gln Gln Val Val Gln Lys Lys Pro Ala Gln Val Asn  
85 90 95

Val Ala Leu Pro Gly Lys Asp His Pro Gly Asn Leu Ile Tyr Leu Leu  
100 105 110

Phe Ser Lys Asn Ala Thr  
115

<210> 13

<211> 95

<212> PRT

<213> Homo sapiens

<400> 13

Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
1 5 10 15

Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Pro Gln Gln Val Val Gln Lys Lys Pro Ala Gln Asp  
85 90 95

<210> 14

<211> 11

<212> PRT

<213> Homo sapiens

<400> 14

Thr Glu Lys Arg Gly Arg Gly Arg Pro Arg Lys  
1 5 10

<210> 15

<211> 11

<212> PRT

<213> Homo sapiens

<400> 15

Thr Pro Lys Arg Pro Arg Gly Arg Pro Lys Gly  
1 5 10

<210> 16

<211> 12

<212> PRT

<213> Homo sapiens

<400> 16

Thr Pro Gly Arg Lys Pro Arg Gly Arg Pro Lys Lys  
1 5 10

<210> 17

<211> 11

<212> PRT

<213> Homo sapiens

<400> 17

Thr Glu Lys Arg Gly Arg Gly Arg Pro Arg Lys  
1 5 10

<210> 18

<211> 11

<212> PRT

PCT\_EP\_04\_00030\_sequence listing.txt

<213> Homo sapiens

<400> 18

Thr Pro Lys Arg Pro Arg Gly Arg Pro Lys Gly  
1 5 10

<210> 19

<211> 12

<212> PRT

<213> Homo sapiens

<400> 19

Thr Pro Gly Arg Lys Pro Arg Gly Arg Pro Lys Lys  
1 5 10

<210> 20

<211> 11

<212> PRT

<213> Homo sapiens

<400> 20

Pro Gln Lys Arg Gly Arg Gly Arg Pro Arg Lys  
1 5 10

<210> 21

<211> 11

<212> PRT

<213> Homo sapiens

<400> 21

Ser Pro Lys Arg Pro Arg Gly Arg Pro Lys Gly  
1 5 10

<210> 22

<211> 21

PCT\_EP\_04\_00030\_sequence\_listing.txt

<212> PRT

<213> Homo sapiens

<400> 22

Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro Arg Lys Trp Pro Gln Gln  
1 5 10 15

Val Val Gln Lys Lys  
20

<210> 23

<211> 78

<212> PRT

<213> Homo sapiens

<400> 23

Pro Lys Lys Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln  
1 5 10 15

Thr Cys Arg Glu Glu His Lys Lys Lys His Pro Asp Ala Ser Val Asn  
20 25 30

Phe Ser Glu Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser  
35 40 45

Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala  
50 55 60

Arg Tyr Glu Arg Glu Met Lys Thr Tyr Ile Pro Pro Lys Gly  
65 70 75

<210> 24

<211> 71

<212> PRT

<213> Homo sapiens

<400> 24

Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln Thr Cys Arg  
Page 12

PCT\_EP\_04\_00030\_sequence\_listing.txt

1 5 10 15  
 Glu Glu His Lys Lys Lys His Pro Asp Ala Ser Val Asn Phe Ser Glu  
 20 25 30  
 Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser Ala Lys Glu  
 35 40 45  
 Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala Arg Tyr Glu  
 50 55 60  
 Arg Glu Met Lys Thr Tyr Ile  
 65 70

<210> 25  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 25  
 Pro Lys Lys Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln  
 1 5 10 15  
 Thr Cys Arg Glu Glu His Lys Lys Lys His Pro Asp Ala Ser Val Asn  
 20 25 30  
 Phe Ser Glu Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser  
 35 40 45  
 Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala  
 50 55 60  
 Arg Tyr Glu Arg Glu Met Lys Thr Tyr  
 65 70

<210> 26  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 26

PCT\_EP\_04\_00030\_sequence\_listing.txt

Pro Asn Ala Pro Lys Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser  
1 5 10 15

Glu Tyr Arg Pro Lys Ile Lys Gly Glu His Pro Gly Leu Ser Ile Gly  
20 25 30

Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Thr Ala Ala Asp  
35 40 45

Asp Lys Gln Pro Tyr Glu Lys Lys Ala Ala Lys Leu Lys Glu Lys Tyr  
50 55 60

Glu Lys Asp Ile Ala Ala Tyr Arg Ala Lys Gly  
65 70 75

<210> 27

<211> 69

<212> PRT

<213> Homo sapiens

<400> 27

Pro Lys Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu Tyr Arg  
1 5 10 15

Pro Lys Ile Lys Gly Glu His Pro Gly Leu Ser Ile Gly Asp Val Ala  
20 25 30

Lys Lys Leu Gly Glu Met Trp Asn Asn Thr Ala Ala Asp Asp Lys Gln  
35 40 45

Pro Tyr Glu Lys Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp  
50 55 60

Ile Ala Ala Tyr Arg  
65

<210> 28

<211> 49

<212> PRT

<213> Homo sapiens

<400> 28

PCT\_EP\_04\_00030\_sequence listing.txt

Pro Lys Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu Tyr Arg  
1 5 10 15

Pro Lys Ile Lys Gly Glu His Pro Gly Leu Ser Ile Gly Asp Val Ala  
20 25 30

Lys Lys Leu Gly Glu Met Trp Asn Asn Thr Ala Ala Asp Asp Lys Gln  
35 40 45

Pro

<210> 29

<211> 181

<212> PRT

<213> Homo sapiens

<400> 29

Glu Glu His Lys Lys Lys Asn Pro Asp Ala Ser Val Lys Phe Ser Glu  
1 5 10 15

Phe Leu Lys Lys Cys Ser Glu Thr Trp Lys Thr Ile Phe Ala Lys Glu  
20 25 30

Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala His Tyr Glu  
35 40 45

Arg Glu Met Lys Thr Tyr Ile Pro Pro Lys Gly Glu Lys Lys Lys Lys  
50 55 60

Phe Lys Asp Pro Asn Ala Pro Lys Arg Pro Pro Leu Ala Phe Phe Leu  
65 70 75 80

Phe Cys Ser Glu Tyr Arg Pro Lys Ile Lys Gly Glu His Pro Gly Leu  
85 90 95

Ser Ile Asp Asp Val Val Lys Lys Leu Ala Gly Met Trp Asn Asn Thr  
100 105 110

Ala Ala Ala Asp Lys Gln Phe Tyr Glu Lys Lys Ala Ala Lys Leu Lys  
115 120 125

Glu Lys Tyr Lys Lys Asp Ile Ala Ala Tyr Arg Ala Lys Gly Lys Pro  
130 135 140

PCT\_EP\_04\_00030\_sequence\_listing.txt

Asn Ser Ala Lys Lys Arg Val Val Lys Ala Glu Lys Ser Lys Lys Lys  
145 150 155 160

Lys Glu Glu Glu Glu Asp Glu Glu Asp Glu Gln Glu Glu Glu Asn Glu  
165 170 175

Glu Asp Asp Asp Lys  
180

<210> 30

<211> 225

<212> PRT

<213> Homo sapiens

<400> 30

Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
1 5 10 15

Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Asn Thr Leu Glu Gln Cys Asn Val Cys Ser Lys Pro Ile  
85 90 95

Met Glu Arg Ile Leu Arg Ala Thr Gly Lys Ala Tyr His Pro His Cys  
100 105 110

Phe Thr Cys Val Met Cys His Arg Ser Leu Asp Gly Ile Pro Phe Thr  
115 120 125

Val Asp Ala Gly Gly Leu Ile His Cys Ile Glu Asp Phe His Lys Lys  
130 135 140

Phe Ala Pro Arg Cys Ser Val Cys Lys Glu Pro Ile Met Pro Ala Pro  
Page 16



145 150 155 160

Gly Gln Glu Glu Thr Val Arg Ile Val Ala Leu Asp Arg Asp Phe His  
165 170 175

Val His Cys Tyr Arg Cys Glu Asp Cys Gly Gly Leu Leu Ser Glu Gly  
180 185 190

Asp Asn Gln Gly Cys Tyr Pro Leu Asp Gly His Ile Leu Cys Lys Thr  
195 200 205

Cys Asn Ser Ala Arg Ile Arg Val Leu Thr Ala Lys Ala Ser Thr Asp  
210 215 220

Leu  
225

<210> 31

<211> 1873

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> NCIB Accession No. M23614

<400> 31  
gagcacgcgg cggcggcggt ctctgagcgc ctctgctctc tctcccgggt tcagatccgc 60  
atttgctacc agcggcggcc gcgcggagcc aggccgggtcc tcagcgccca gcacggctcc 120  
cggcaacccg gagcgcgcac cgcagccggc ggccgagctc gcgcatcca gccatcactc 180  
ttccacctgc tccttagaga agggaagatg agtgagtcga gctcgaagtc cagccagccc 240  
ttggcctcca agcaggaaaa ggacggcact gagaagcggg gccggggcag gccgcgcaag 300  
cagcctccgg tgagtcccg gacagcgctg gtagggagtc agaaggagcc cagcgaagtg 360  
ccaacaccta agagacctcg gggccgacca aagggaagca aaaacaaggg tgctgccaag 420  
acccggaaaa ccaccacaac tccaggaagg aaaccaaggg gcagacccaa aaaactggag 480  
aaggaggaag aggagggcat ctgcgaggag tcctcggagg aggagcagt acccatgcgt 540  
gccgcctgct cctcactgga ggagcagctt ccttctggga ctggacagct ttgctccgct 600  
cccaccgccc ccgccccttc cccaggccca ccataccac cgcctctggc cgccaccccc 660

PCT\_EP\_04\_00030\_sequence\_listing.txt

atcttccacc	tgtgccctca	ccaccacact	acacagcaca	ccagccgctg	caggggctcc	720
catgggcctg	agtggggagc	agttttcccc	tggcctcagt	tcacagctcc	ccccgcccac	780
ccacgcatac	acacatgccc	tcctggacaa	ggctaacatc	ccacttagcc	gcaccctgca	840
cctgctgcgt	ccccactccc	ttggtggtgg	ggacattgct	ctctgggctt	ttggtttggg	900
ggcgccctct	ctgctccttc	actgttcctt	ctggcttccc	atagtggggc	ctgggagggt	960
tcccctggcc	ttaaaagggg	cccaagccat	ctcatcctgg	cacgcccctac	tccactgccc	1020
tggcacagca	ggtgtggcca	atggaggggg	gtgctggccc	ccaggattcc	cccagccaaa	1080
ctgtctttgt	caccacgtgg	ggctcacttt	tcatccttcc	ccaacttccc	tagtccccgt	1140
actaggttgg	acagccccct	tcggctacag	gaaggcagga	ggggtgagtc	ccctactccc	1200
tcttctactgt	ggccacagcc	cccttgccct	ccgcctggga	tctgagtaca	tattgtgggtg	1260
atggagatgc	agtcacttat	tgtccaggtg	aggcccaaga	gccctgtggc	cgcacctgag	1320
gtgggctggg	gctgctcccc	taaccctact	ttcgttccgc	cactcagcca	tttccccctc	1380
ctcagatggg	gcaccaataa	caaggagctc	accctgcccg	ctcccaaccc	ccctcctgct	1440
cctccctgcc	ccccaaaggtt	ctgggttcca	tttttctctt	gttcacaaac	tacctctgga	1500
cagttgtgtt	gttttttgtt	caatgttcca	ttcttcgaca	tccgtcattg	ctgctgctac	1560
cagcgccaaa	tgttcatcct	cattgcctcc	tgttctgccc	acgatcccct	cccccaagat	1620
actctttgtg	ggaagagggg	ctggggcatg	gcaggctggg	tgaccgacta	ccccagtccc	1680
agggaaaggtg	gccctgcccc	taggatgctg	cagcagagtg	agcaaggggg	cccgaatcga	1740
ccataaaggg	tgtaggggcc	acctcctccc	cctgttctgt	tggggagggg	tagccatgat	1800
ttgtcccagc	ctggggctcc	ctctctgggt	tcctatttgc	agttacttga	ataaaaaaaaa	1860
tatccttttc	tgg					1873

<210> 32

<211> 324

<212> DNA

<213> Homo sapiens

<400> 32

atgagtgagt	cgagctcgaa	gtccagccag	cccttggcct	ccaagcagga	aaaggacggc	60
actgagaagc	ggggccgggg	caggccgcgc	aagcagcctc	cggtgagtcc	cgggacagcg	120
ctggtaggga	gtcagaagga	gccagcgaa	gtgccaacac	ctaagagacc	tcggggccga	180
ccaaagggaa	gcaaaaacaa	gggtgctgcc	aagacccgga	aaaccaccac	aactccagga	240

PCT\_EP\_04\_00030\_sequence\_listing.txt

aggaaaccaa ggggcagacc caaaaaactg gagaaggagg aagaggaggg catctcgag 300  
gagtcctcgg aggaggagca gtga 324

<210> 33

<211> 1875

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> NCIB Accession No. M23616

<400> 33  
gctttttaag ctcccttgag ccggtgctgc gctcctctaa ttgggactcc gagccggggc 60  
tattttctggg ctggcgcggc tccaagaaga tccgcatttg ctaccagcgg cggccgcgcg 120  
gagccaggcc ggtcctcagc gcccagcacg gctcccggca acccggagcg cgcaccgcag 180  
ccggcgggccg agctcgcgca tcccagccat cactcttcca cctgctcctt agagaaggga 240  
agatgagtga gtcgagctcg aagtccagcc agcccttggc ctccaagcag gaaaaggacg 300  
gcactgagaa gcggggccgg ggcaggccgc gcaagcagcc tccgaaggag cccagcgaag 360  
tgccaacacc taagagacct cggggccgac caaagggaag caaaaacaag ggtgctgcca 420  
agaccggaa aaccaccaca actccaggaa ggaaaccaag gggcagaccc aaaaaactgg 480  
agaaggagga agaggagggc atctcgagc agtcctcgga ggaggagcag tgacccatgc 540  
gtgccgcctg ctctcactg gaggagcagc ttccttctgg gactggacag ctttgctccg 600  
ctcccaccgc ccccgcccct tcccaggcc caccatcacc accgcctctg gccgccaccc 660  
ccatcttcca cctgtgccct caccaccaca ctacacagca caccagccgc tgcaggggct 720  
cccatgggccc tgagtgggga gcagttttcc cctggcctca gttcacagct ccccccgcgc 780  
accacgcat acacacatgc cctcctggac aaggctaaca tcccacttag ccgcaccctg 840  
cacctgctgc gtcccccactc ccttggtggt ggggacattg ctctctgggc ttttggtttg 900  
ggggcgccct ctctgctcct tactgttcc ctctggcttc ccatagtggg gcctgggagg 960  
gttcccctgg ccttaaaagg ggcccaagcc atctcatcct ggcacgccct actccactgc 1020  
cctggcacag cagggtgtggc caatggaggg ggggtgtggc cccagagatt ccccagcca 1080  
aactgtcttt gtcaccacgt ggggctcact tttcatcctt cccaacttc cctagtcccc 1140  
gtactaggtt ggacagcccc cttcggctac aggaaggcag gaggggtgag tcccctactc 1200

PCT\_EP\_04\_00030\_sequence\_listing.txt

cctcttcact	gtggccacag	cccccttgcc	ctccgcctgg	gatctgagta	catattgtgg	1260
tgatggagat	gcagtcactt	attgtccagg	tgaggcccaa	gagccctgtg	gccgcacctg	1320
aggtgggctg	gggctgctcc	cctaacccta	ctttcgttcc	gccactcagc	catttcccc	1380
tcctcagatg	gggcaccaat	aacaaggagc	tcaccctgcc	cgctcccaac	ccccctcctg	1440
ctcctccctg	ccccccaagg	ttctgggttc	catttttcct	ctgttcacaa	actacctctg	1500
gacagttgtg	ttgttttttg	ttcaatgttc	cattcttcga	catccgtcat	tgctgctgct	1560
accagcgcca	aatgttcatc	ctcattgcct	cctgttctgc	ccacgatccc	ctcccccaag	1620
atactctttg	tgggaagagg	ggctggggca	tggcaggctg	ggtgaccgac	taccccagtc	1680
ccaggaagg	tggccctgcc	cctaggatgc	tgcagcagag	tgagcaagg	ggcccgaatc	1740
gaccataaag	ggtgtagggg	ccacctcctc	cccctgttct	gttggggagg	ggtagccatg	1800
atttgtcca	gcctggggct	ccctctctgg	tttcctat	ttgcagttact	gaataaaaaa	1860
aatatccttt	tctgg					1875

<210> 34

<211> 291

<212> DNA

<213> Homo sapiens

<400> 34

atgagtgagt	cgagctcgaa	gtccagccag	cccttggcct	ccaagcagga	aaaggacggc	60
actgagaagc	ggggccgggg	caggccgcgc	aagcagcctc	cgaaggagcc	cagcgaagtg	120
ccaacaccta	agagacctcg	gggccgacca	aagggaagca	aaaacaagg	tgctgccaag	180
acccggaaaa	ccaccacaac	tccaggaagg	aaaccaagg	gcagacccaa	aaaactggag	240
aaggaggaag	aggagggcat	ctcgcaggag	tcctcggagg	aggagcagtg	a	291

<210> 35

<211> 4111

<212> DNA

<213> Homo sapiens

<400> 35

acacaccaca	cacactcaca	ctcacacaca	ctcacacaca	ctcatcccct	tgaatcttgg	60
ggcaggaact	cagaaaactt	ccagcccggg	cagcgcgcgc	ttggtgcaag	actcaggagc	120

PCT\_EP\_04\_00030\_sequence\_listing.txt

tagcagcccg	tccccctccg	actctccggt	gccgccgctg	cctgctcccg	ccaccctagg	180
aggcgcggtg	ccaccacta	ctctgtcctc	tgctgtgct	ccgtgcccga	ccctatccccg	240
gcggagtctc	cccatactcc	tttgctttcc	gactgcccaa	ggcactttca	atctcaatct	300
cttctctctc	tctctctctc	tctctgtctc	tctctctctc	tctctctctc	tctctctcgc	360
aggggtggggg	gaagaggagg	aggaattctt	tccccgccta	acatttcaag	ggacacaatt	420
cactccaagt	ctcttccctt	tccaagccgc	ttccgaagtg	ctcccgggtgc	ccgcaactcc	480
tgatcccaac	ccgcgagagg	agcctctgcg	acctcaaagc	ctctcttctt	tctccctcgc	540
ttccctctctc	ctcttgctac	ctccacctcc	accgccacct	ccacctccgg	caccacacca	600
ccgccgccgc	cgccaccggc	agcgctctct	cctctctctc	tcctcctccc	ctcttctctt	660
tttggcagcc	gctggacgtc	cggtgttgat	ggtggcagcg	gcggcagcct	aagcaacagc	720
agccctcgca	gcccgcagc	tcgcgctcgc	cccgccggcg	tcccagccc	tatcacctca	780
tctcccga	ggtgctgggc	agctccgggg	cggtcgaggc	gaagcggctg	cagcggcggt	840
agcggcgggc	ggaggcagga	tgagcgcacg	cggtgagggc	gcggggcagc	cgtccacttc	900
agcccaggga	caacctgccg	ccccagcgcc	tcagaagaga	ggacgcggcc	gccccaggaa	960
gcagcagcaa	gaaccaaccg	gtgagccctc	tcctaagaga	cccaggggaa	gacccaaagg	1020
cagcaaaaac	aagagtcctt	ctaaagcagc	tcaaaagaaa	gcagaagcca	ctggagaaaa	1080
acggccaaga	ggcagaccta	ggaaatggcc	acaacaagtt	gttcagaaga	agcctgctca	1140
ggaggaaact	gaagagacat	cctcacaaga	gtctgccgaa	gaggactagg	gggcgcaacg	1200
ttcgatttct	acctcagcag	cagttggatc	ttttgaaggg	agaagacact	gcagtgacca	1260
cttattctgt	attgccatgg	tctttccact	ttcatctggg	gtgggggtggg	gtgggggtggg	1320
ggaggggggg	gtgggggtggg	gagaaatcac	ataaccttaa	aaaggactat	attaatcacc	1380
ttctttgtaa	tcctttcaca	gtcccagggt	tagtgaaaaa	ctgctgtaaa	cacagggggac	1440
acagcttaac	aatgcaactt	ttaattactg	ttttcttttt	tcttaacctt	ctaatagttt	1500
gttgatctga	taagcaagag	tgggcgggtg	agaaaaaccg	aattgggttt	agtcaatcac	1560
tgcactgcat	gcaaacaaga	aacgtgtcac	acttgtgacg	tcgggcattc	atataggaag	1620
aacgcgggtg	gtaacactgt	gtacacctca	aataccaccc	caaccactc	cctgtagtga	1680
atcctctgtt	tagaacacca	aagataagga	ctagatacta	ctttctcttt	ttcgtataat	1740
ctttagagaca	cttacttgat	gatttttaac	tttttatttc	taaatgagac	gaaatgctga	1800
tgtatccttt	cattcagcta	acaaactaga	aaaggttatg	ttcatttttc	aaaaagggaa	1860
gtaagcaaac	aaatattgcc	aactcttcta	tttatggata	tcacacatat	cagcaggagt	1920
aataaattta	ctcacagcac	ttgttttcag	gacaacactt	cattttcagg	aaatctactt	1980

PCT_EP_04_00030_sequence_listing.txt						
cctacagagc	caaaatgcc	tttagcaata	aataacactt	gtcagcctca	gagcatttaa	2040
ggaaactaga	caagtaaaat	tatcctcttt	gtaatttaat	gaaaagggtac	aacagaataa	2100
tgcattgatga	actcacctaa	ttatgagggtg	ggaggagcga	aatctaaatt	tcttttgcta	2160
tagttataca	tcaattttaa	aagcaaaaaa	aaaaaggggg	gggcaatctc	tctctgtgtc	2220
tttctctctc	tctctccctc	tccctctctc	ttttcatgtg	tatcagtttc	catgaaagac	2280
ctgaatacca	cttacctcaa	attaagcata	tgtgttactt	caagtaatac	gttttgacat	2340
aagatgggtg	accaagggtg	ttttcttcgg	cttgagttca	ccatctcttc	attcaaactg	2400
cacttttagc	cagagatgca	atataatccc	actactcaat	actacctctg	aatgttacaa	2460
cgaatttaca	gtctagtact	tattacatgc	tgctatacac	aagcaatgca	agaaaaaac	2520
ttactgggta	ggtgattcta	atcatctgca	gttctttttg	tacacttaat	tacagttaaa	2580
gaagcaatct	ccttactgtg	tttcagcatg	actatgtatt	tttctatgtt	tttttaatta	2640
aaaattttta	aaatacttgt	ttcagcttct	ctgctagatt	tctacattaa	cttgaaaatt	2700
ttttaaccaa	gtcgtccta	ggttcttaag	gataattttc	ctcaatcaca	ctacacatca	2760
cacaagattt	gactgtaata	tttaaataat	accctccaag	tctgtacctc	aaatgaattc	2820
tttaaggaga	tggactaatt	gacttgcaaa	gacctacctc	cagacttcaa	aagggaatgaa	2880
cttggttactt	gcagcattca	tttgtttttt	caatgtttga	aatagttcaa	actgcagcta	2940
accctagtca	aaactatttt	tgtaaaagac	atttgataga	aaggaacacg	tttttacata	3000
cttttgcaaa	ataagtaaat	aataaataaa	ataaagccaa	ccttcaaaga	acttgaagct	3060
ttgtagggtga	gatgcaacaa	gccctgcttt	tgcataatgc	aatcaaaaat	atgtgttttt	3120
aagattagtt	gaatataaga	aaatgcttga	caaatatttt	catgtatttt	acacaaatgt	3180
gatttttgta	atatgtctca	accagattta	ttttaaacgc	ttcttatgta	gagtttttat	3240
gcctttctct	cctagttagt	gtgctgactt	tttaacatgg	tattatcaac	tgggccagga	3300
ggtagtttct	catgacggct	tttgtcagta	tggcttttag	tactgaagcc	aaatgaaact	3360
caaaaccatc	tctcttccag	ctgcttcagg	gaggtagttt	caaaggccac	atacctctct	3420
gagactggca	gatcgctcac	tggtgtgaat	caccaaagga	gctatggaga	gaattaaaac	3480
tcaacattac	tgtaactgt	gcgttaaata	agcaaataaa	cagtggctca	taaaaataaa	3540
agtcgcattc	catatctttg	gatgggcctt	ttagaaacct	cattggccag	ctcataaaat	3600
ggaagcaatt	gctcatgttg	gccaaacatg	gtgcaccgag	tgatttccat	ctctggtaaa	3660
gttacacttt	tatttcctgt	atgttgatca	atcaaaacac	actactacct	cttaagtccc	3720
agtataacct	atttttcata	ctgaaaaaaa	aagcttgtgg	ccaatggaac	agtaagaaca	3780
tcataaaatt	tttatatata	tagttttatt	ttgtgggaga	taaattttat	aggactgttc	3840
tttgctgttg	ttggctcgag	ctacataaga	ctggacattt	aacttttcta	ccatttctgc	3900

PCT\_EP\_04\_00030\_sequence\_listing.txt

aagttaggta tgtttgcagg agaaaagtat caagacgttt aactgcagtt gactttctcc	3960
ctgttccttt gagtgtcttc taactttatt ctttgttctt tatgtagaat tgctgtctat	4020
gattgtactt tgaatcgctt gcttgttgaa aatatttctc tagtgtatta tcaactgtctg	4080
ttctgcacaa taaacataac agcctctgtg a	4111

<210> 36

<211> 330

<212> DNA

<213> Homo sapiens

<400> 36		
atgagcgcac gcggtgaggg cgcggggcag ccgtccactt cagcccaggg acaacctgcc	60	
gccccagcgc ctcaagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc	120	
ggtgagccct ctcttaagag acccagggga agacccaaag gcagcaaaaa caagagtccc	180	
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct	240	
aggaaatggc cacaacaagt tgttcagaag aagcctgctc aggaggaaac tgaagagaca	300	
tcctcacaag agtctgccga agaggactag	330	

<210> 37

<211> 252

<212> DNA

<213> Homo sapiens

<400> 37		
atgagcgcac gcggtgaggg cgcggggcag ccgtccactt cagcccaggg acaacctgcc	60	
gccccagcgc ctcaagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc	120	
ggtgagccct ctcttaagag acccagggga agacccaaag gcagcaaaaa caagagtccc	180	
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct	240	
aggaaatggt ga	252	

<210> 38

<211> 273

<212> DNA

## PCT\_EP\_04\_00030\_sequence\_listing.txt

&lt;213&gt; Homo sapiens

```

<400> 38
atgagcgcac gcggtgaggg cgcggggcag ccgtccactt cagcccaggg acaacctgcc      60
gccccagcgc ctcagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc      120
ggtgagccct ctcctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc      180
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct      240
aggaaatggg aggagtttta cattgcagct tag                                     273

```

&lt;210&gt; 39

&lt;211&gt; 291

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 39
atgagcgcac gcggtgaggg cgcggggcag ccgtccactt cagcccaggg acaacctgcc      60
gccccagcgc ctcagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc      120
ggtgagccct ctcctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc      180
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct      240
aggaaatggc ctactattgc actttgcaca cactggataa acatctgctg a                291

```

&lt;210&gt; 40

&lt;211&gt; 1207

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; NCIB Accession No. NM\_002128

```

<400> 40
gagacagcgc cggggcaagt gagagccgga cgggcactgg gcgactctgt gcctcgctga      60
ggaaaaataa ctaaactatg gcaaaggaga tcctaagaag ccgagaggca aaatgtcatc      120
atatgcattt tttgtgcaaa cttgtcggga ggagcataag aagaagcacc cagatgcttc      180

```



PCT\_EP\_04\_00030\_sequence\_listing.txt

```

agtcaacttc tcagagtttt ctaagaagtg ctcagagagg tggaagacca tgtctgctaa 240
agagaaagga aaatttgaag atatggcaaa ggcggacaag gcccgttatg aaagagaaat 300
gaaaacctat atccctccca aaggggagac aaaaaagaag ttcaaggatc ccaatgcacc 360
caagaggcct ccttcggcct tcttcctcct ctgctctgag tatcgcccaa aaatcaaagg 420
agaacatcct ggcctgtcca ttggtgatgt tgcgaagaaa ctgggagaga tgtggaataa 480
cactgctgca gatgacaagc agccttatga aaagaaggct gcgaagctga aggaaaaata 540
cgaaaaggat attgctgcat atcgagctaa aggaaagcct gatgcagcaa aaaagggagt 600
tgtcaaggct gaaaaaagca agaaaaagaa ggaagaggag gaagatgagg aagatgaaga 660
ggatgaggag gaggaggaag atgaagaaga tgaagatgaa gaagaagatg atgatgatga 720
ataagttggt tctagcgcag ttttttttct ttgtctataa agcatttaac cccctgtac 780
acaactcact ctttttaag aaaaaattg aaatgtaagg ctgtgtaaga tttgttttta 840
aactgtacag tgtctttttt tgtatagtta acacactacc gaatgtgtct ttagatagcc 900
ctgtcctggt ggtattttca atagccacta accttgctg gtacagtatg ggggttgtaa 960
attggcatgg aaatttaag caggttcttg ttggtgcaca gcacaaatta gttatatatg 1020
gggatggtag ttttttcatt ttcagttgtc tctgatgcag cttatacgaa ataattgttg 1080
ttctgttaac tgaataccac tctgtaattg caaaaaaaaa aaaagttgca gctgttttgt 1140
tgacattctg aatgcttcta agtaaataca atttttttta ttaaaaaaaaa aaaaaaaaaa 1200
aaaaaaaaa 1207

```

<210> 41

<211> 648

<212> DNA

<213> Homo sapiens

<400> 41

```

atgggcaaag gagatcctaa gaagccgaga ggcaaaatgt catcatatgc attttttgtg 60
caaacttgct gggaggagca taagaagaag caccagatg cttcagtcaa cttctcagag 120
ttttctaaga agtgctcaga gaggtggaag accatgtctg ctaaagagaa aggaaaatgt 180
gaagatatgg caaaggcgga caaggcccgt tatgaaagag aaatgaaaac ctatatccct 240
cccaaagggg agacaaaaaa gaagttcaag gatcccaatg caccgaagag gcctccttcg 300
gccttcttcc tcttctgctc tgagtatcgc caaaaaatca aaggagaaca tcctggcctg 360
tccattgggtg atgttgcgaa gaaactggga gagatgtgga ataacactgc tgcagatgac 420
aagcagcctt atgaaaagaa ggctgcgaag ctgaagggaa aatacgaaaa ggatattgct 480

```

## PCT\_EP\_04\_00030\_sequence\_listing.txt

gcatatcgag	ctaaaggaaa	gcctgatgca	gcaaaaaagg	gagttgtcaa	ggctgaaaaa	540
agcaagaaaa	agaagggaaga	ggaggaagat	gaggaagatg	aagaggatga	ggaggaggag	600
gaagatgaag	aagatgaaga	tgaagaagaa	gatgatgatg	atgaataa		648

&lt;210&gt; 42

&lt;211&gt; 444

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 42

atgagcgcac	gcggtgaggg	cgcggggag	ccgtccactt	cagcccaggg	acaacctgcc	60
gccccagcgc	ctcagaagag	aggacgcggc	cgccccagga	agcagcagca	agaaccaacc	120
ggtgagccct	ctcctaagag	accaggggga	agacccaaag	gcagcaaaaa	caagagtccc	180
tctaaagcag	ctcaaaagaa	agcagaagcc	actggagaaa	aacggccaag	aggcagacct	240
aggaaatggg	ctggagtgca	gtggtacaat	ctcggtcat	tgcaacctcc	acctcccagg	300
ttcaagcaat	tctcctgcct	caggctcctg	agtagttggg	attacaggca	cccaccacca	360
caccagcta	atttttgtat	ttttagtaga	gacagggttt	caccatgttg	gccaggctgg	420
tctcgaactc	ctgacctcag	gtga				444

&lt;210&gt; 43

&lt;211&gt; 321

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 43

atgagcgcac	gcggtgaggg	cgcggggag	ccgtccactt	cagcccaggg	acaacctgcc	60
gccccagcgc	ctcagaagag	aggacgcggc	cgccccagga	agcagcagca	agaaccaacc	120
ggtgagccct	ctcctaagag	accaggggga	agacccaaag	gcagcaaaaa	caagagtccc	180
tctaaagcag	ctcaaaagaa	agcagaagcc	actggagaaa	aacggccaag	aggcagacct	240
aggaaatggg	acaatctact	accaagaacc	agctccaaga	agaaaacatc	tctgggaaac	300
agtacaaaaa	ggagtcaactg	a				321

&lt;210&gt; 44

&lt;211&gt; 279

## PCT\_EP\_04\_00030\_sequence listing.txt

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 44

```

atgagcgcac gcggtgaggg cgcggggag ccgtccactt cagcccaggg acaacctgcc      60
gccccagcgc ctcagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc    120
ggtgagccct ctcctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc    180
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct    240
aggaaatggt ggttgctaata gaagagcccg tgctggtga                          279

```

&lt;210&gt; 45

&lt;211&gt; 291

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 45

```

atgagcgcac gcggtgaggg cgcggggag ccgtccactt cagcccaggg acaacctgcc      60
gccccagcgc ctcagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc    120
ggtgagccct ctcctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc    180
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct    240
aggaaatggc cacaacaagt tgttcagaag aagcctgctc agtattcctg a                          291

```

&lt;210&gt; 46

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 46

```

atgagcgcac gcggtgaggg cgcggggag ccgtccactt cagcccaggg acaacctgcc      60
gccccagcgc ctcagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc    120
ggtgagccct ctcctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc    180
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct    240
aggaaatggc cacaacaagt tgttcagaag aagcctgctc aggtcaatgt tgccttgccct    300
gggaaggacc acccgggcaa tcttatatat ctactgttct ctaaaaaatgc cacttag      357

```

PCT\_EP\_04\_00030\_sequence\_listing.txt

<210> 47

<211> 288

<212> DNA

<213> Homo sapiens

<400> 47

atgagcgcac gcggtgaggg cgcggggag ccgtccactt cagcccaggg acaacctgcc	60
gccccagcgc ctcagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc	120
ggtgagccct ctctaaagag acccagggga agacccaaag gcagcaaaaa caagagtccc	180
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct	240
aggaaatggc cacaacaagt tggtcagaag aagcctgctc aggactga	288

<210> 48

<211> 33

<212> DNA

<213> Homo sapiens

<400> 48

actgagaagc ggggccgggg caggccgcgc aag	33
--------------------------------------	----

<210> 49

<211> 33

<212> DNA

<213> Homo sapiens

<400> 49

acacctaaga gacctcgggg ccgaccaaag gga	33
--------------------------------------	----

<210> 50

<211> 36

<212> DNA

<213> Homo sapiens

<400> 50

PCT\_EP\_04\_00030\_sequence\_listing.txt  
actccaggaa ggaaaccaag gggcagacc aaaaaa 36

<210> 51  
<211> 33  
<212> DNA  
<213> Homo sapiens

<400> 51  
actgagaagc ggggccgggg caggccgcgc aag 33

<210> 52  
<211> 33  
<212> DNA  
<213> Homo sapiens

<400> 52  
acacctaaga gacctcgggg ccgaccaaag gga 33

<210> 53  
<211> 36  
<212> DNA  
<213> Homo sapiens

<400> 53  
actccaggaa ggaaaccaag gggcagacc aaaaaa 36

<210> 54  
<211> 33  
<212> DNA  
<213> Homo sapiens

<400> 54  
cctcagaaga gaggacgcgg ccgccccagg aag 33

<210> 55  
<211> 33

PCT\_EP\_04\_00030\_sequence\_listing.txt

<212> DNA

<213> Homo sapiens

<400> 55  
tctcctaaga gacccagggg aagacccaaa ggc 33

<210> 56

<211> 63

<212> DNA

<213> Homo sapiens

<400> 56  
actggagaaa aacggccaag aggcagacct aggaaatggc cacaacaagt tggtcagaag 60  
aag 63

<210> 57

<211> 234

<212> DNA

<213> Homo sapiens

<400> 57  
cctaagaagc cgagaggcaa aatgtcatca tatgcatttt ttgtgcaaac ttgtcgggag 60  
gagcataaga agaagcacc agatgcttca gtcaacttct cagagttttc taagaagtgc 120  
tcagagaggt ggaaggtaag agggcttaaa acatgctaac aaggtaatta aaagacagtt 180  
tccaattgag gatgcaaaaa aaagcctagt tggcattctc gtagtgggac gcta 234

<210> 58

<211> 213

<212> DNA

<213> Homo sapiens

<400> 58  
ccgagaggca aaatgtcatc atatgcattt tttgtgcaaa cttgtcggga ggagcataag 60  
aagaagcacc cagatgcttc agtcaacttc tcagagtttt ctaagaagtg ctgagagagg 120  
tggaagacca tgtctgctaa agagaaagga aaatttgaag atatggcaaa ggcggacaag 180

PCT\_EP\_04\_00030\_sequence\_listing.txt

gcccgttatg aaagagaaat gaaaacctat atc 213

<210> 59

<211> 219

<212> DNA

<213> Homo sapiens

<400> 59  
cctaagaagc cgagaggcaa aatgtcatca tatgcatttt ttgtgcaaac ttgtcgggag 60  
gagcataaga agaagcacc cagatgcttca gtcaacttct cagagttttc taagaagtgc 120  
tcagagaggt ggaagaccat gtctgctaaa gagaaaggaa aatttgaaga tatggcaaag 180  
gctggacaagg cccgttatga aagagaaatg aaaacctat 219

<210> 60

<211> 225

<212> DNA

<213> Homo sapiens

<400> 60  
cccaatgcac ccaagaggcc tccttcggcc ttcttcctct tctgctctga gtatcgccca 60  
aaaatcaaag gagaacatcc tggcctgtcc attggtgatg ttgcgaagaa actgggagag 120  
atgtggaata aactgctgc agatgacaag cagccttatg aaaagaaggc tgcgaagctg 180  
aaggaaaaat acgaaaagga tattgctgca tatcgagcta aagga 225

<210> 61

<211> 207

<212> DNA

<213> Homo sapiens

<400> 61  
cccaagaggc ctccttcggc cttcttcctc ttctgctctg agtatcgccc aaaaatcaaa 60  
ggagaacatc ctggcctgtc cattggtgat gttgcgaaga aactgggaga gatgtggaat 120  
aacactgctg cagatgacaa gcagccttat gaaaagaagg ctgcgaagct gaaggaaaaa 180  
tacgaaaagg atattgctgc atatcga 207

PCT\_EP\_04\_00030\_sequence\_listing.txt

<210> 62

<211> 147

<212> DNA

<213> Homo sapiens

<400> 62

cccaagaggc ctccttcggc cttcttcctc ttctgctctg agtatcgccc aaaaatcaaa	60
ggagaacatc ctggcctgtc cattggtgat gttgcgaaga aactgggaga gatgtggaat	120
aacactgctg cagatgacaa gcagcct	147

<210> 63

<211> 546

<212> DNA

<213> Homo sapiens

<400> 63

gaggagcata agaagaagaa cccagatgct tcagtcaagt tctcagagtt tttaaagaag	60
tgctcagaga catggaagac catttttgct aaagagaaag gaaaatttga agatatggca	120
aaggcggaca aggccatta tgaaagagaa atgaaaacct atatccctcc taaaggggag	180
aaaaaaaaaga agttcaagga tccaatgca cccaagaggc ctcctttggc ctttttcctg	240
ttctgctctg agtatcgccc aaaaatcaaa ggagaacatc ctggcctgtc cattgatgat	300
gttggtgaaga aactggcagg gatgtggaat aacaccgctg cagctgacaa gcagttttat	360
gaaaagaagg ctgcaaagct gaaggaaaaa tacaaaaagg atattgctgc atatcgagct	420
aaaggaaagc ctaattcagc aaaaaagaga gttgtcaagg ctgaaaaaag caagaaaaag	480
aaggaagagg aagaagatga agaggatgaa caagaggagg aaaatgaaga agatgatgat	540
aaataa	546

<210> 64

<211> 678

<212> DNA

<213> Homo sapiens

<400> 64



PCT\_EP\_04\_00030\_sequence\_listing.txt

atgagcgcac gcggtgaggg cgcggggcag ccgtccactt cagcccaggg acaacctgcc	60
gccccagcgc ctcagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc	120
ggtgagccct ctcctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc	180
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct	240
aggaaatgga atactctgga gcagtgcaat gtgtgtttcca agcccatcat ggagcggatt	300
ctccgagcca ccgggaaggc ctatcatcct cactgtttca cctgcgtgat gtgccaccgc	360
agcctggatg ggatcccatt cactgtggat gctggcgggc tcattcactg cattgaggac	420
ttccacaaga aatttgcccc gcggtgttct gtgtgcaagg agcctattat gccagccccg	480
ggccaggagg agactgtccg tattgtggct ttggatcgag atttccatgt tctactgctac	540
cgatgcgagg attgcggtgg tctcctgtct gaaggagata accaaggctg ctacccttg	600
gatgggcaca tcctctgcaa gacctgcaac tctgcccga tcagggtgtt gaccgccaag	660
gcgagcactg accttttag	678